CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No11/BBU/CSR-05/051f/CEMENT/2016-17 Date: 30.05.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. B.B. Umesh,** # 385/1, Near Anjaneya Temple, Bettahalasur Village & (P), Bangalore - 57.
*NAME OF THE WORK	:	Improvements to roads and drains at Vinayakanagar in Ward No. 11, Vidyaranyapura Sub Division, BBMP, Bangalore.
REFERENCE	:	BBMP/EE/BTP/WO/40/2016-17 Dated: 26.05.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	28.05.2016
PERIOD OF TESTING	:	28.05.2016 to 30.05.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.50 %	
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	485 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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VISHWANATH. I.A.
Chief Executive Officer

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Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/W.No11/BBU/CSR-05/051f/SAND-Gradation/2016-17 : 30.05.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. B.B. Umesh,** # 385/1, Near Anjaneya Temple, Bettahalasur Village & (P), Bangalore - 57.
* Name of Work	: Improvements to roads and drains at Vinayakanagar in Ward No. 11, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: BBMP/EE/BTP/WO/40/2016-17 Dated: 26.05.2016
Technical Reference	: IS : 2386 Part 1 - 1963 RA-2007
Sample ID	: Fine Aggregates
Sample Received on	: 28.05.2016
Date of Testing	: 30.05.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.41	90-100	90-100	90-100	95-100
2.36	77.68	60-95	75-100	85-100	95-100
1.18	50.22	30-70	55-90	75-100	90-100
600 Micron	20.57	15-34	35-59	60-79	80-100
300 Micron	8.44	5-20	8-30	12-40	15-50
150 Micron	3.06	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No11/BBU/CSR-05/051f/AGG/GR/2016-17 : 30.05.2016

TEST REPORT ON COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. B.B. Umesh,** # 385/1, Near Anjaneya Temple, Bettahalasur Village & (P), Bangalore - 57.
* Name of Work	: Improvements to roads and drains at Vinayakanagar in Ward No. 11, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: BBMP/EE/BTP/WO/40/2016-17 Dated: 26.05.2016
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 28.05.2016
Date of Testing	: 30.05.2016

Total Wt. of Aggregates in gms= **7000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.50	95-100	85-100
20	36.29	30-70	0-20
10	13.97	10-35	0-5
4.75	1.59	0-5	-

* Information is furnished by the Customer/Representative.

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No11/BBU/STEEL/2016-17 30.05.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. B.B. Umesh,** # 385/1, Near Anjaneya Temple, Bettahalasur Village & (P), Bangalore - 57.
Name of the Work	:	Improvements to roads and drains at Vinayakanagar in Ward No. 11, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	BBMP/EE/BTP/WO/40/2016-17 Dated: 26.05.2016
Date of Test	:	30.05.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	12	0.89	518	560	13.45	O.K	O.K

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M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
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Basaveshwaranagar,
Bangalore-560079.

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T-2377

Job No.: CTCE/BBMP/W.No11/BBU/CSR-05/051f/CUBE/2016-17 03.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. B.B. Umesh,** # 385/1, Near Anjaneya Temple, Bettahalasur Village & (P), Bangalore - 57.
* Name of the work	: Improvements to roads and drains at Vinayakanagar in Ward No. 11, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: BBMP/EE/BTP/WO/40/2016-17 Dated: 26.05.2016
* Sample ID	: Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{15}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 03.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.06.2016	03.07.2016	8.137	366.8	16.30
2	05.06.2016	03.07.2016	8.265	392.5	17.44
3	05.06.2016	03.07.2016	8.348	381.7	16.96

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E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/W.No11/BBU/CSR-05/051f/CUBE/2016-17 05.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. B.B. Umesh,** # 385/1, Near Anjaneya Temple, Bettahalasur Village & (P), Bangalore - 57.
* Name of the work	: Improvements to roads and drains at Vinayakanagar in Ward No. 11, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: BBMP/EE/BTP/WO/40/2016-17 Dated: 26.05.2016
* Sample ID	: Drain Covering Slab Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 05.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.06.2016	05.07.2016	8.153	473.8	21.06
2	07.06.2016	05.07.2016	8.247	510.4	22.68
3	07.06.2016	05.07.2016	8.359	491.6	21.85

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Job No.: CTCE/BBMP/W.No11/BBU/CSR-05/051f/CUBE/2016-17 12.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. B.B. Umesh,** # 385/1, Near Anjaneya Temple, Bettahalasur Village & (P), Bangalore - 57.
* Name of the work	: Improvements to roads and drains at Vinayakanagar in Ward No. 11, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: BBMP/EE/BTP/WO/40/2016-17 Dated: 26.05.2016
* Sample ID	: Pavement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 12.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.06.2016	12.07.2016	8.179	481.4	21.40
2	14.06.2016	12.07.2016	8.219	496.5	22.07
3	14.06.2016	12.07.2016	8.358	513.7	22.83

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Reference	: BBMP/EE/BTP/WO/40/2016-17 Dated: 26.05.2016
* Sample ID	: Pavement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 12.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.06.2016	12.07.2016	8.257	480.3	21.35
2	14.06.2016	12.07.2016	8.368	502.3	22.32
3	14.06.2016	12.07.2016	8.432	523.6	23.27

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* Sample ID	: Pavement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 12.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.06.2016	12.07.2016	8.235	492.5	21.89
2	14.06.2016	12.07.2016	8.267	496.7	22.08
3	14.06.2016	12.07.2016	8.319	499.8	22.21

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Reference	: BBMP/EE/BTP/WO/40/2016-17 Dated: 26.05.2016
* Sample ID	: Pavement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 12.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.06.2016	12.07.2016	8.336	511.5	22.73
2	14.06.2016	12.07.2016	8.288	496.8	22.08
3	14.06.2016	12.07.2016	8.274	485.3	21.57

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Reference	: BBMP/EE/BTP/WO/40/2016-17 Dated: 26.05.2016
* Sample ID	: Pavement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 13.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.06.2016	13.07.2016	8.196	478.6	21.27
2	15.06.2016	13.07.2016	8.235	493.6	21.94
3	15.06.2016	13.07.2016	8.350	512.5	22.78

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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Reference	: BBMP/EE/BTP/WO/40/2016-17 Dated: 26.05.2016
* Sample ID	: Pavement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 13.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.06.2016	13.07.2016	8.148	473.6	21.05
2	15.06.2016	13.07.2016	8.219	482.4	21.44
3	15.06.2016	13.07.2016	8.325	496.8	22.08

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Reference	: BBMP/EE/BTP/WO/40/2016-17 Dated: 26.05.2016
* Sample ID	: Pavement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 13.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.06.2016	13.07.2016	8.265	478.9	21.28
2	15.06.2016	13.07.2016	8.318	492.5	21.89
3	15.06.2016	13.07.2016	8.425	513.6	22.83

* Information is furnished by the Customer/Representative

Civil-Tech Consultants & Engineers Bangalore

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

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VISHWANATH. I.A.
Chief Executive Officer

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No11/BBU/CSR-05/051f/CUBE/2016-17 13.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. B.B. Umesh,** # 385/1, Near Anjaneya Temple, Bettahalasur Village & (P), Bangalore - 57.
* Name of the work	: Improvements to roads and drains at Vinayakanagar in Ward No. 11, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: BBMP/EE/BTP/WO/40/2016-17 Dated: 26.05.2016
* Sample ID	: Pavement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 13.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.06.2016	13.07.2016	8.312	497.5	22.11
2	15.06.2016	13.07.2016	8.415	515.2	22.90
3	15.06.2016	13.07.2016	8.249	484.6	21.54

* Information is furnished by the Customer/Representative

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VISHWANATH. I.A.
Chief Executive Officer

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com